

Title (en)  
INTERFERENCE MITIGATION IN A FEMTOCELL ACCESS POINT

Title (de)  
INTERFERENZUNTERDRÜCKUNG BEI EINEM FEMTOZELLEN-ZUGANGSPUNKT

Title (fr)  
ATTÉNUATION D'INTERFÉRENCE DANS UN POINT D'ACCÈS FEMTOCELLULAIRE

Publication  
**EP 2452517 B1 20180919 (EN)**

Application  
**EP 10720458 A 20100428**

Priority  
• GB 2010050695 W 20100428  
• GB 0911771 A 20090707

Abstract (en)  
[origin: GB2471681A] A base station in a cellular network, such as a femtocell access point, has a first coverage area, and is located in a second coverage area associated with a second base station. The base station operates to detect a possibility of interference based on estimated first path losses, between the base station and points in the first coverage area, and a second path loss, between the base station and a user equipment that is attached to the second base station. The second path loss may be estimated in the base station by: estimating the average transmit power of the user equipment; detecting in the base station signals transmitted by the user equipment; and estimating the second path loss from a difference between the estimated average transmit power and the power of the detected signals transmitted by the user equipment. If it is determined that the base station is causing interference a user may be notified or transmitted power may be reduced.

IPC 8 full level  
**H04W 24/08** (2009.01); **H04W 52/24** (2009.01); **H04W 24/02** (2009.01); **H04W 52/22** (2009.01); **H04W 72/54** (2023.01); **H04W 84/04** (2009.01)

CPC (source: EP GB US)  
**H04W 24/08** (2013.01 - EP US); **H04W 52/242** (2013.01 - GB); **H04W 52/244** (2013.01 - EP US); **H04B 17/318** (2013.01 - EP US); **H04B 17/327** (2015.01 - EP US); **H04W 24/02** (2013.01 - EP US); **H04W 52/225** (2013.01 - EP US); **H04W 52/242** (2013.01 - EP US); **H04W 72/541** (2023.01 - EP US); **H04W 84/045** (2013.01 - EP US)

Designated contracting state (EPC)  
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